

# Appendix B.8

## LTE Band 14



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	23.79	24.06	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.82	24.09	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.73	24.00	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.86	23.13	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.80	24.07	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.77	24.04	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.70	23.97	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.84	23.11	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.80	24.07	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.72	23.99	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.70	23.97	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.83	23.10	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	23.18	23.45	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	23.02	23.29	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.99	23.26	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.91	22.18	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	23.05	23.32	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	23.12	23.39	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.98	23.25	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.86	22.13	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	23.01	23.28	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	23.07	23.34	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.92	23.19	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.88	22.15	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.81	24.08	34.77	PASS



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Band14	10MHz	QPSK	23330	1RB#24	23.81	24.08	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.72	23.99	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.87	23.14	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	23.06	23.33	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	23.16	23.43	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.94	23.21	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.86	22.13	34.77	PASS



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### Field Strength of Spurious Radiation

Test Band = LTE\_14\_10M\_TM1  
 Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.3222	67.30	-53.41	25.85	-55.52	-13.00	42.52	216	316	Horizontal
2	2547.9435	52.68	-50.91	28.29	-65.20	-13.00	52.20	364	244	Horizontal
3	3626.8813	52.81	-49.37	30.31	-61.51	-13.00	48.51	143	35	Horizontal
4	5086.8043	51.59	-47.29	33.47	-57.49	-13.00	44.49	184	212	Horizontal
5	7474.9737	49.80	-43.36	36.65	-52.17	-13.00	39.17	218	168	Horizontal
6	9002.8001	48.20	-41.66	38.79	-49.93	-13.00	36.93	211	325	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.3222	62.77	-53.41	25.85	-60.05	-13.00	47.05	205	243	Vertical
2	2535.1919	53.16	-50.99	28.21	-64.88	-13.00	51.88	139	52	Vertical
3	3613.5807	53.13	-49.50	30.25	-61.38	-13.00	48.38	364	10	Vertical
4	5254.8127	50.80	-46.50	33.38	-57.58	-13.00	44.58	322	74	Vertical
5	7481.6241	49.88	-43.31	36.64	-52.05	-13.00	39.05	210	335	Vertical
6	8557.9279	48.50	-42.33	38.96	-50.13	-13.00	37.13	229	320	Vertical



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Test Band = LTE\_14\_5M\_TM1

Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1576.5721	64.88	-53.41	25.85	-57.94	-13.00	44.94	171	303	Horizontal
2	2402.9254	53.13	-51.87	27.81	-66.19	-13.00	53.19	362	249	Horizontal
3	3157.5079	52.50	-49.92	30.32	-62.36	-13.00	49.36	376	94	Horizontal
4	5483.3742	50.87	-45.49	33.20	-56.68	-13.00	43.68	264	217	Horizontal
5	8187.2594	49.18	-43.35	37.45	-51.98	-13.00	38.98	143	187	Horizontal
6	8994.3997	48.48	-41.70	38.77	-49.71	-13.00	36.71	219	183	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1576.5721	63.80	-53.41	25.85	-59.02	-13.00	46.02	254	239	Vertical
2	2526.1908	53.08	-51.04	28.16	-65.06	-13.00	52.06	333	278	Vertical
3	3956.9478	52.35	-49.09	30.93	-61.07	-13.00	48.07	139	12	Vertical
4	5816.9408	50.94	-45.62	34.10	-55.84	-13.00	42.84	235	247	Vertical
5	8369.9685	49.38	-43.16	37.36	-51.68	-13.00	38.68	184	90	Vertical
6	9614.6307	47.66	-41.10	39.08	-49.62	-13.00	36.62	235	247	Vertical



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Test Band = LTE\_14\_5M\_TM1  
 Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.5727	62.78	-53.40	25.84	-60.04	-13.00	47.04	320	295	Horizontal
2	2191.899	53.04	-51.98	27.65	-66.55	-13.00	53.55	219	113	Horizontal
3	3162.7581	52.95	-50.01	30.33	-61.99	-13.00	48.99	156	46	Horizontal
4	4736.0868	51.30	-47.54	32.09	-59.41	-13.00	46.41	223	144	Horizontal
5	6354.9177	50.45	-45.17	34.77	-55.21	-13.00	42.21	143	281	Horizontal
6	9745.8873	47.83	-41.06	38.79	-49.70	-13.00	36.70	149	210	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.5727	60.15	-53.40	25.84	-62.67	-13.00	49.67	233	202	Vertical
2	2519.1899	54.55	-51.08	28.12	-63.67	-13.00	50.67	235	245	Vertical
3	3633.1817	52.65	-49.31	30.33	-61.59	-13.00	48.59	359	349	Vertical
4	5579.279	50.82	-45.56	33.32	-56.68	-13.00	43.68	221	101	Vertical
5	7481.2741	49.58	-43.31	36.64	-52.35	-13.00	39.35	256	190	Vertical
6	9050.7525	48.62	-41.88	38.70	-49.82	-13.00	36.82	184	58	Vertical



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**Test Band = LTE\_14\_5M\_TM1**  
**Test Channel = HCH**

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.8293	63.70	-53.39	25.83	-59.12	-13.00	46.12	293	350	Horizontal
2	2461.2231	54.64	-51.26	27.92	-63.96	-13.00	50.96	254	238	Horizontal
3	3275.7638	52.87	-49.80	30.65	-61.54	-13.00	48.54	101	165	Horizontal
4	5005.6503	51.46	-44.06	33.13	-54.73	-13.00	41.73	105	238	Horizontal
5	7891.1946	49.36	-42.19	37.35	-50.74	-13.00	37.74	370	267	Horizontal
6	9585.9793	47.77	-39.49	39.17	-47.81	-13.00	34.81	184	209	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.8293	64.16	-53.39	25.83	-58.66	-13.00	45.66	281	222	Vertical
2	2464.3732	56.00	-51.26	27.93	-62.59	-13.00	49.59	348	202	Vertical
3	3951.6976	51.97	-47.86	30.91	-60.24	-13.00	47.24	226	334	Vertical
4	4988.9994	51.19	-44.02	33.12	-54.97	-13.00	41.97	231	280	Vertical
5	7496.9748	49.58	-42.59	36.61	-51.66	-13.00	38.66	184	172	Vertical
6	9081.9541	48.65	-40.49	38.70	-48.40	-13.00	35.40	311	290	Vertical

**Remark:**

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

---End of Attachment---

